CLAIMS

WHAT IS CLAIMED

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- 1. A disease gene for rheumatoid arthritis, which is a mutant of protooncogene Dbl transcribing an mRNA that encodes the cDNA
- of which the sequence from the 2679th to 2952nd bases is shown in SEQ ID NO. 1, which disease gene transcribes an mRNA encoding the cDNA of which the region from the 20th to 274th bases in SEQ ID NO: 1 is substituted with the sequence of SEQ ID NO: 2.
 - 2. The cDNA of the disease gene of claim 1.
 - 3. A\DNA fragment, which is a part of the disease gene of claim 1 or the cDNA of claim 2, and contains the base sequence of SEQ ID NO: 3.
 - 4. A protein which is an expression product of the disease gene of claim 1, wherein the amino acid sequence of the C-terminal is that shown in SEQ ID NO: 2.
 - 5. A peptide, which is a part of the protein of claim 4, and contains partial sequence of the amino acid sequence shown in SEQ ID NO: 2.
- An antibody against the protein of claim 4 or the peptide 20 of claim 5.
 - 7. A method for diagnosing rheumatoid arthritis, comprising the detection of the mRNA from the disease gene of claim 1 or the protein of claim 4, in a biological specimen.
 - 8. A method for functionally complementing Dbl deficiency.

25 (day)

Add 7

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